

FIG. 1

US-PAT-NO: 6318168

DOCUMENT-IDENTIFIER: US 6318168 B1

TITLE: Thermal dispersion probe with microcomputer controller

— KWIC —

Detailed Description Text - DETX (10):

The user interface 11 consists of a display for sending information to a user and a keypad for receiving information from a user. The information input by the user is used by the microcomputer 10 to determine the desired operation of the unit. Many applications, for example in hazardous environments, prohibit the user from using the user interface 11. The remote interface 12 is provided for a user to monitor or control the unit from a remote location. The remote interface 12 consists of physical such as RS-232 or RS-485 and a data interface such as Modbus. For any applications requiring an analog output, a current loop interface 13 is provided. The current loop interface 13 sinks a current between four and twenty milliamps to represent the thermal signal 15. The relationship between the thermal signal 15 and the output of the current loop interface 13 is determined by variables entered by the user via one of the user interfaces 11 or 12.

U	1	Document	Issue	Date	Pa	Current	Current	XR	Tit
1	<input type="checkbox"/>	US 6234030	2001052	26	73/861.04	73/195			Multiphase mete
2	<input type="checkbox"/>	US 5821405	1998101	14	73/53.01	73/170.29			Modular water o
3	<input type="checkbox"/>	US 5655403	1997081	43	73/322.5	33/759			Reversible float
4	<input type="checkbox"/>	US 6318168	2001112	7	73/204.15	340/515			Thermal disperse
5	<input checked="" type="checkbox"/>	US 6631636	2003101	8	73/121	73/46			Device for testin
6	<input checked="" type="checkbox"/>	US 6449732	2002091	57	71/4/12	713/400			Method and app
7	<input checked="" type="checkbox"/>	US 5862391	1999011	126	713/300				Power managen
8	<input checked="" type="checkbox"/>	US 5862052	1999011	46	713/1	719/315			Process control

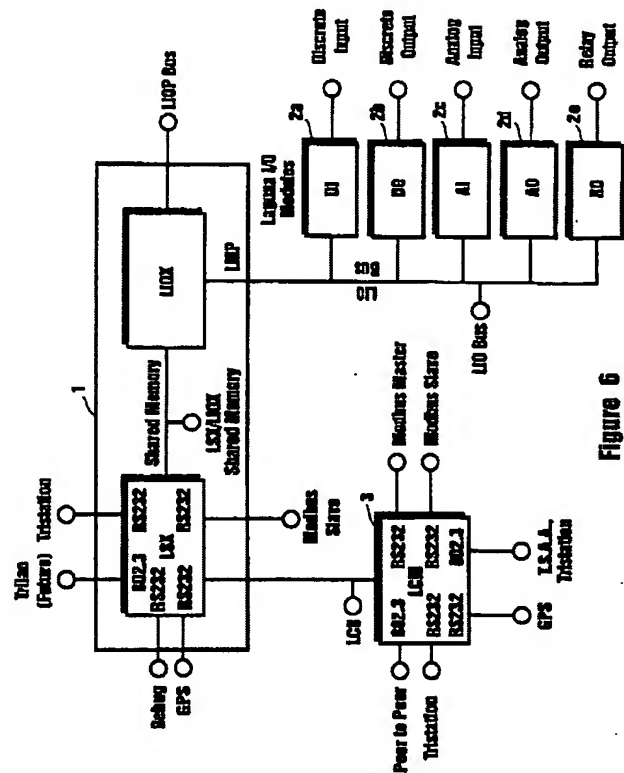


Figure 6

Brief Summary Text - BSTX (22):

In addition, each MP can provide direct development and monitoring computer support and **Modbus** communication. Each MP provides one (IEEE 802.3 Ethernet) Development System computer port for downloading the application program to the Trident controller and uploading diagnostic information., one **Modbus** RE-232/RS-485 serial port which acts as a slave while an external host computer is the master. Typically, a distributed control system (DCS) monitors and optionally updates the controller data directly through an MP.

Detailed Description Text - DETX (14):

In addition each MP module 1 can provide direct development and monitoring computer 6 support (Development System) and **Modbus** 5 communications. Each MP module 1 provides one (IEEE 802.3 Ethernet) Development System computer port for downloading the application program to the controller and uploading diagnostic information: One **Modbus** RE-232/RS-485 serial port which acts as a slave while an external host computer is the master. Typically, a distributed control system (DCS) monitors and optionally updates the controller 31 data directly through an MP module 1 connection.

Detailed Description Text - DETX (39):

The Main Processor, MP/IOP module 1 comprises at least two semi-independent sections, the MP 15 (main processor) and the IOP 17 (Input/Output Processor). Also provided are a **Modbus** port 5 which is a Modicon protocol port. The system supports acting as a slave to the port 5 communication link. A development system port 6 is also provided through which the application program developed may be downloaded from a development PC or other computer and the controller 31 monitored. Communications between the main processor MP 15 sections and other main processor sections of other MP/IOP modules 1 takes place over the Channel 11: Communication between the Input/Output, IOP sections 17, with other processor IOP sections 17 takes place over the IOP bus 14. Communications between the MP/IOP module 1 and communications CM module 3 take place over

Details | Text | Image | HTML | KWIC

	U	1	Document	Issue	Date	Pa	Current	Current	XR	Tit
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6234030	2001052	26	73/861.04	73/195			Multiphase mete
2	<input type="checkbox"/>	<input type="checkbox"/>	US 5821405	1998101	14	73/53.01	73/170.29			Modular water a
3	<input type="checkbox"/>	<input type="checkbox"/>	US 5655403	1997081	43	73/322.5	33/759			Reversible float
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6318168	2001112	7	73/204.15	340/515			Thermal dispers
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6631636	2003101	8	73/121	73/46			Device for testin
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6449732	2002091	57	714/12	713/400			Method and app
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5862391	1999011	126	713/300				Power managen
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5862052	1999011	46	713/1	719/315			Process control

Details | Text | Image | HTML

EAS 1 - (Untitled1) - [File View Edit Tools Window Help]

☐ Drafts
☐ Pending
☒ Active

L1: (197) ("4427620" or "5300726" or "5552331" or "4435827" or "5342120" or "5450346...
L2: (123) modbus
L3: (307) programmable with field with port
L4: (320) 1 2
L5: (307) 3 not 4

☐ Failed
☐ Saved
☐ Favorites
☒ Tagged (9)

Priority: [Low] [Med] [High] [Queue] [Done]
DB: USPAT; EPO; JPO; DERIVENT; IBM; TOS
Default operator: [DR]
☒ Plurals
☒ Highlight all hit terms initially

modbus

ABG Item ABG Item Image Text HTML

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Class	Inventor	S	C	P	O	Im
7	<input type="checkbox"/>	<input type="checkbox"/>	US 5862391 A	19990119	126	Power management control system	713/300			Salas, Patrick G. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5862052 A	19990119	46	Process control system using a control	713/1	719/315		Nixon, Mark et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
9	<input type="checkbox"/>	<input type="checkbox"/>	US 6266713 B1	20010724	33	Field upgradeable dynamic data exch	710/9	713/1		Karanam, Rajalah et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6678751 B1	20040113	13	System for setting frame and protocol f	710/8	709/217		Hays, Paul J. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
11	<input type="checkbox"/>	<input type="checkbox"/>	US 6098116 A	20000801	50	Process control system including a me	710/8	709/220		Nixon, Mark et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
12	<input type="checkbox"/>	<input type="checkbox"/>	US 5764891 A	19980609	9	Process I/O to fieldbus interface circ	710/72	702/122		Warrior, Joaesh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
13	<input type="checkbox"/>	<input type="checkbox"/>	US 6032208 A	20000229	40	Process control system for versatile co	710/64			Nixon, Mark et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
14	<input type="checkbox"/>	<input type="checkbox"/>	US 6016523 A	20000118	39	I/O modular terminal having a plurality	710/63	710/303		Zimmerman, Achim et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
15	<input type="checkbox"/>	<input type="checkbox"/>	US 5410730 A	19950425	11	Interface controller for matching a pr	710/4	710/15		Longsdorf, Randy J. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
16	<input type="checkbox"/>	<input type="checkbox"/>	US 5805844 A	19980908	13	Control circuit for an interface betwe	710/209	710/22		Gustlin, Jay W. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
17	<input type="checkbox"/>	<input type="checkbox"/>	US 5960214 A	19990928	36	Integrated communication network to	710/15	700/9		Sharpe, Jr., Richard R. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
18	<input type="checkbox"/>	<input type="checkbox"/>	US 6466995 B2	20021015	14	Messaging application layer over eth	710/11	710/62		Swales, Andrew G. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
19	<input type="checkbox"/>	<input type="checkbox"/>	US 6233626 B1	20010515	13	System for a modular terminal input/ou	710/11	710/62		Swales, Andrew G. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
20	<input type="checkbox"/>	<input type="checkbox"/>	US 6266726 B1	20010724	43	Process control system using standard	710/105	713/1		Nixon, Mark et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
21	<input type="checkbox"/>	<input type="checkbox"/>	US 6105093 A	20000815	8	Interface monitor for communicating	710/105			Rosner, Lisa E. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
22	<input type="checkbox"/>	<input type="checkbox"/>	US 5828851 A	19981027	43	Process control system using standard	710/105	713/1		Nixon, Mark et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
23	<input type="checkbox"/>	<input type="checkbox"/>	US 6360277 B1	20020319	11	Addressable intelligent relay	709/250	709/230		Ruckley, Kevin et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
24	<input type="checkbox"/>	<input type="checkbox"/>	US 6321272 B1	20011120	18	Apparatus for controlling internetwork	709/250	709/223		Swales, Andrew G.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
25	<input type="checkbox"/>	<input type="checkbox"/>	US 6587884 B1	20030701	11	Dual ethernet protocol stack for mod	709/230	709/218		Papadopoulos, A. Dean et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
26	<input type="checkbox"/>	<input type="checkbox"/>	US 6363422 B1	20020326	18	Multi-capability facilities monitoring an	709/224	709/218		Hunter, Robert R. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
27	<input type="checkbox"/>	<input type="checkbox"/>	US 6151625 A	20001121	11	Internet web interface including progr	709/218	709/230		Swales, Andrew G. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
28	<input type="checkbox"/>	<input type="checkbox"/>	US 6298376 B1	20011002	10	Fault tolerant communication monitor f	709/209	709/208		Rosner, Lisa E. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
29	<input type="checkbox"/>	<input type="checkbox"/>	US 6301610 B1	20011009	17	Communication system	709/208	714/18		Ramser, Stephen F. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
30	<input type="checkbox"/>	<input type="checkbox"/>	US 6330516 B1	20011211	8	Branch circuit monitor	702/60	702/122		Kammeter, John B.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
31	<input type="checkbox"/>	<input type="checkbox"/>	US 6609070 B1	20030819	63	Fluid treatment apparatus	702/50	210/614		Lueck, Stanley R.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
32	<input type="checkbox"/>	<input type="checkbox"/>	US 6556930 B1	20030429	30	Fluid treatment apparatus	702/50	210/614		Lueck, Stanley R.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
33	<input type="checkbox"/>	<input type="checkbox"/>	US 6446014 B1	20020903	9	Method and apparatus for measuring	702/45	702/12		Ocondi, Cham	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
34	<input type="checkbox"/>	<input type="checkbox"/>	US 6671633 B2	20031230	17	Modular monitoring and protection sys	702/34	702/189		Kramb, Kevin E. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
35	<input type="checkbox"/>	<input type="checkbox"/>	US 6662118 B2	20031209	17	Modular monitoring and protection sys	702/33	702/168		Carle, Patrick F. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
36	<input type="checkbox"/>	<input type="checkbox"/>	US 6405139 B1	20020611	26	System for monitoring plant assets inclu	702/33	361/679		Klinski, Walter et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
37	<input type="checkbox"/>	<input type="checkbox"/>	US 6330525 B1	20011211	71	Method and apparatus for diagnosing	702/183	376/245		Hays, Coy L. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
38	<input type="checkbox"/>	<input type="checkbox"/>	US 6260004 B1	20010710	74	Method and apparatus for diagnosing	702/183	702/190		Hays, Coy L. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
39	<input type="checkbox"/>	<input type="checkbox"/>	US 5995916 A	19991130	54	Process control system for monitoring	702/182	700/117		Nixon, Mark et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
40	<input type="checkbox"/>	<input type="checkbox"/>	US 5615133 A	19970325	8	Method and device for storing transa	702/123	705/1		Gillard, Patrick et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
41	<input type="checkbox"/>	<input type="checkbox"/>	US 6389339 B1	20020514	5	Vehicle operation monitoring system a	701/33	701/24		Just, William J.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
42	<input type="checkbox"/>	<input type="checkbox"/>	US 6633800 B1	20031014	34	Remote control system	701/2	180/167		Ward, Robert S. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
43	<input type="checkbox"/>	<input type="checkbox"/>	US 6628992 B2	20030930	12	Remote terminal unit	700/9	340/285,01		Osburn, III, Douglas C.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
44	<input type="checkbox"/>	<input type="checkbox"/>	US 6484061 B2	20021119	11	Web interface to a programmable co	700/83	700/67		Papadopoulos, A. Dean et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US

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	U	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Class	Inventor	S	C	P	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
1	<input type="checkbox"/>	US 6681353 B1	20040120	14	Methods and apparatus for obtaining a trace of a digital signal within a field	714/725	702/117; 716/4		Barrow, Jonathan J.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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